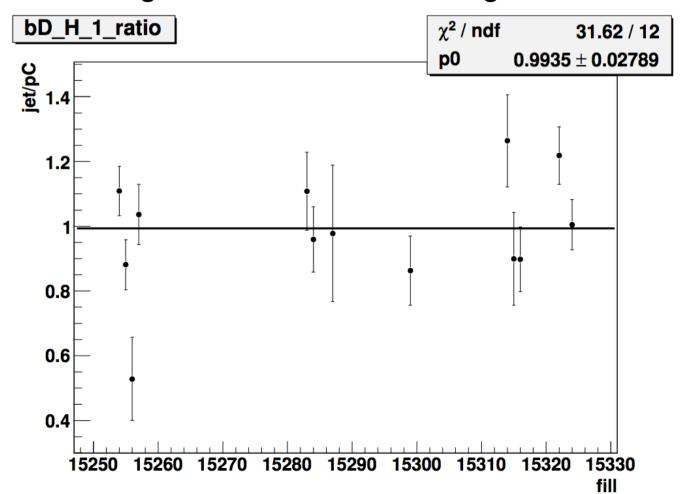
A_N etc. per pC target

polar. meeting 17.08.11

- We normalize carbon polarimeter: pC/H-jet
- So far normalization done each pC polar.: BUp, BDn, YUp, YDn mean per fill: \langle pC \rangle_{fill} / \langle H-jet \rangle_{fill}
- Can break down further: normalize for each target
- Alan has done; e.g. for BDn Horizontal target 1:

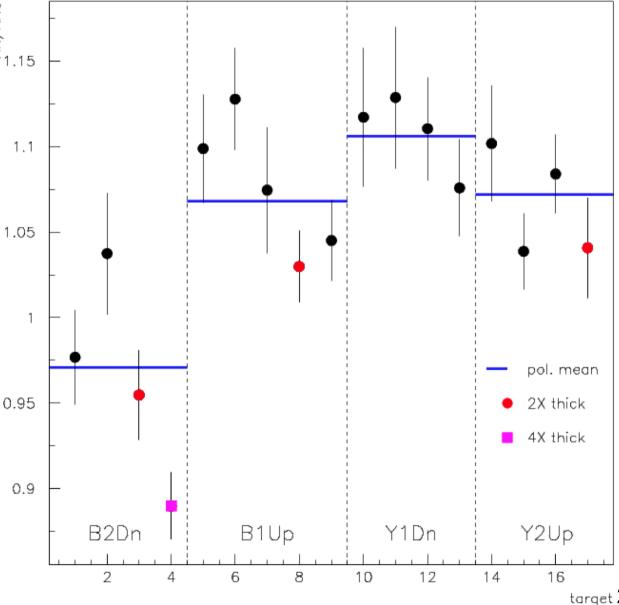


A_N etc. per pC target

- A_N for all targets >3 fills; mean & stat. uncert. P0 fit:
- Relative to fixed A_{N0} (2004 100 GeV)
- Blue lines are mean A_N each polar.

1st observation:

- Thick targets lower A_M
- Consistent with: more E-loss in target
- ⇒ fixed E-detected
- ⇒ higher E-scattered
- \Rightarrow lower A



A_N etc. per pC target

• A_N for all targets >3 fills normalized

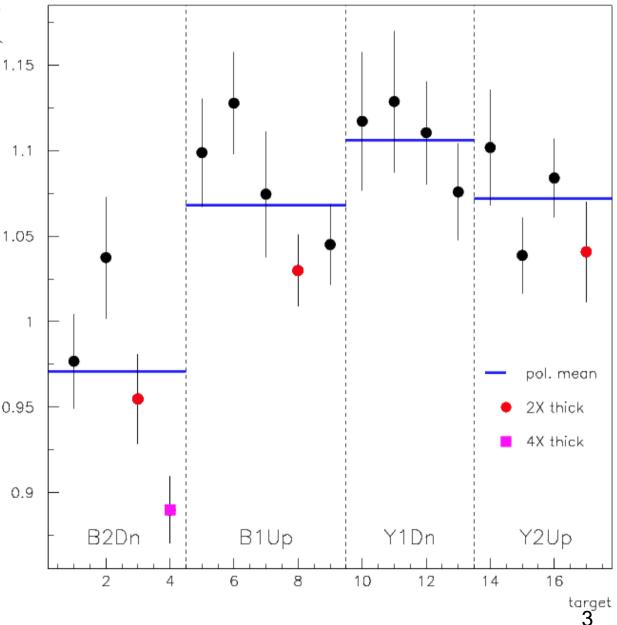
Relative to fixed A_{N0}
(2004 100 GeV)

Blue lines are mean
A_N each polar.

2nd observation:

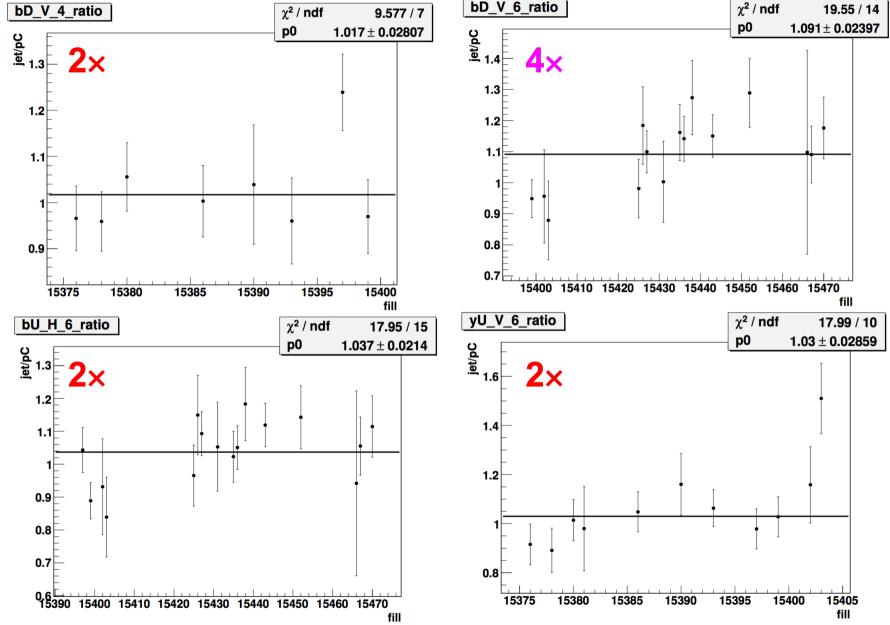
Mean for each polar.
~consistent each target
(except B2Dn, thick targets pull mean down)^{0.95}

Mean each polar. OK A_N;
perhaps separate A_N
for thick targets?



Thick targets

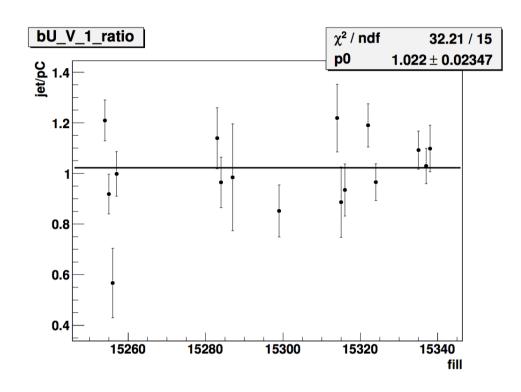
Thick targets more succeptible to orientation→A_N instability

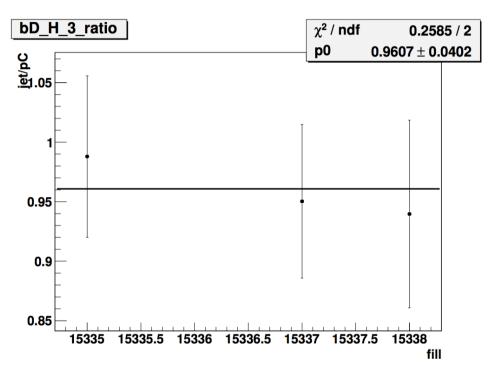


Thick targets ~same scatter in A_N as thin (compare slide 1)

Loose targets

"Young Bill" Christie reported a few losse targets; from Alan's set:





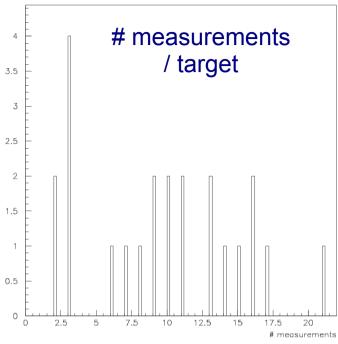
• No anamalous scatter in A_N

Summary

- Thick targets have lower A_N, as expected from E-loss in target
- For 1x thin targets, ~same A_N each polarimeter
 - one A_N each polar. ~OK
 - Separate A_N for thick targets?
 - Motivation to *not* experiment with thick targets...
- From one loose target: no anamalous scatter in A_N

Extras

Measurements, χ^2 , NDOF



from P0 (constant) fits:

